IN THE CLAIMS

Please amend claims 8, 9, 12, 13, 16, 20 and 21, as set forth below. The following listing of the claims replaces all prior versions and listings of the claims in relation to the present patent application.

- 1. (Original) A method of maintaining coherency in a multi-processor-bus computer system comprising the acts of:
- (a) receiving a request at a host controller from a first bus, the request having a corresponding first address;
- (b) initiating a first read to a first portion of memory corresponding to the first address;
 - (c) snooping a second bus for the first address;
- (d) determining the next snoop transaction to be processed, the next snoop transaction having a corresponding second address; and
- (e) searching a posting queue for a posted writeback, the posted writeback having the corresponding second address, wherein the act of searching occurs simultaneously with respect to the act of snooping.
- 2. (Original) The method of maintaining coherency, as set forth in claim 1, further comprising the acts of:
- (a) detecting a posted writeback having the corresponding second address in the posting queue;
- (b) re-ordering the posting queue such that the posted writeback to the second address is moved up in the posting queue; and
- (c) initiating a second read to a second portion of memory corresponding to the second address.

- 3. (Original) The method of maintaining coherency, as set forth in claim 2, wherein the acts of detecting, re-ordering and initiating a second read occur simultaneously with respect to the act of snooping.
- 4. (Original) The method of maintaining coherency, as set forth in claim 1, wherein act (a) comprises the act of receiving a request at a host controller from a processor bus.
- 5. (Original) The method of maintaining coherency, as set forth in claim 1, wherein act (a) comprises the act of receiving a request at a host controller from an input/output (I/O) bus.
- 6. (Original) The method of maintaining coherency, as set forth in claim 1, wherein the act of snooping is performed by a coherency control module.
- 7. (Original) The method of maintaining coherency, as set forth in claim 1, wherein act (d) comprises the acts of:
- (a) searching a snoop queue in a processor controller corresponding to the second bus; and
- (b) returning a next snoop forecast signal from the processor controller to the coherency control module, the next snoop forecast signal comprising the corresponding second address.
- 8. (Currently Amended) A method of predicting a future snoop transaction comprising the acts of:

- (a) initiating a snoop request having a corresponding first address from a coherency control module to a processor controller;
- (b) returning a snoop result corresponding to the first address from the processor controller to the coherency control module; and
- (c) returning a next snoop forecast signal having a second address and corresponding to the next snoop request to processed from the processor controller to the coherency control module; and
- (d) searching a posting queue for a posted writeback, the posted writeback having the second address, wherein the act of searching occurs simultaneously with the act of initiating.
- 9. (Currently Amended) The method of predicting a future snoop transaction, as set forth in claim 8, further comprising the acts of:
- (a) detecting thea posted writeback having the corresponding second address in the posting queue;
- (b) re-ordering the posting queue such that the posted writeback to the second address is moved up in the posting queue; and
 - (c) initiating a second read to a second portion of memory corresponding to the second address.
- 10. (Original) The method of predicting a future snoop transaction, as set forth in claim 9, wherein the acts of detecting, re-ordering and initiating a second read occur simultaneously with respect to the act of snooping.
- 11. (Original) The method of predicting a future snoop transaction, as set forth in claim 8, wherein acts (b) and (c) occur simultaneously.

- 12. (Currently Amended) A method of maintaining cache coherency in a multiprocessor-bus computer system comprising the acts of:
- (a) reading a snoop transaction queue comprising at least a first snoop request having a first address and a second snoop request having a second address, the second snoop request being prioritized subsequent to the first snoop request in the snoop transaction queue; and
- (b) processing the first snoop request while simultaneously searching a posting queue for a posted writeback having the second address corresponding to the second snoop request.
- 13. (Currently Amended) The method of maintaining a cache coherency in a multi-processor-bus computer system, as set forth in claim 12, further comprising the acts of:
- (a) detecting thea posted writeback having the corresponding second address in the posting queue;
- (b) re-ordering the posting queue such that the posted writeback to the second address is moved up in the posting queue; and
- (c) initiating a second read to a second portion of memory corresponding to the second address.
- 14. (Original) The method of maintaining cache coherency in a multiprocessor-bus computer system, as set forth in claim 13, wherein the acts of detecting, re-ordering and initiating a second read occur simultaneously with respect to the act of snooping.

- 15. (Original) The method of maintaining cache coherency in a multiprocessor-bus computer system, as set forth in claim 12, wherein act (a) comprises the acts of:
 - (a) searching the snoop queue in a processor controller; and
- (b) returning a next snoop forecast signal from the processor controller to a coherency control module, the next snoop forecast signal having a second address and corresponding to the second snoop request.
- 16. (Currently Amended) A coherency control module configured to snoop a bus for a first address while simultaneously searching a posting queue for a second address corresponding to a posted writeback.
- 17. (Original) The coherency control module, as set forth in claim 16, comprising a first request module configured to receive requests from a first processor controller.
- 18. (Original) The coherency control module, as set forth in claim 17, comprising a second request module configured to issue snoops to a second processor controller.
- 19. (Original) The coherency control module, as set forth in claim 18, wherein the posting queue resides in the second processor controller.
- 20. (Currently Amended) The coherency control module, as set forth in claim 16, wherein the coherency control module is configured to snoop a processor bus for thea first address.

21. (Currently Amended) The coherency control module, as set forth in claim 16, wherein the coherency control module is configured to snoop an input/output (I/O) bus for thea first address.